Release notes for ENDF/B Development n-066_Dy_162 evaluation

ENDF
B-VII.dev

April 26, 2017

- **checkr** Warnings:

    1. A previous error halted parsing of the current section
       MAT=6643, MF= 1, MT=451 (1): Parsing stopped

       ```
       ERROR(S) FOUND IN MAT=6643, MF= 1, MT=451
           SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER     237 TO     457
       ```

- **checkr** Errors:

    1. A variable is outside the allowed ENDF range
       MAT=6643, MF= 1, MT=451 (0): Variable range

       ```
       ERROR(S) FOUND IN MAT=6643, MF= 1, MT=451
           MOD =    1 OUT OF RANGE    0 -    0           RECORD NUMBER    237
       ```

    2. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6643, MF= 2, MT=151 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6643, MF= 2, MT=151
           SECTION  2/151 NOT IN DIRECTORY                RECORD NUMBER    459
       ```

    3. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6643, MF= 3, MT= 1 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT=  1
           SECTION  3/  1 NOT IN DIRECTORY                RECORD NUMBER    652
       ```

    4. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6643, MF= 3, MT= 2 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT=  2
           SECTION  3/  2 NOT IN DIRECTORY                RECORD NUMBER    668
       ```

    5. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6643, MF= 3, MT= 4 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT=  4
           SECTION  3/  4 NOT IN DIRECTORY                RECORD NUMBER    704
       ```

    6. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6643, MF= 3, MT= 16 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 16
           SECTION  3/ 16 NOT IN DIRECTORY                RECORD NUMBER    735
       ```

    7. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=6643, MF= 3, MT= 17 (0): Directory (b)

1

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 17
   SECTION  3/ 17 NOT IN DIRECTORY                RECORD NUMBER     744
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF= 3, MT= 22 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 22
   SECTION  3/ 22 NOT IN DIRECTORY                RECORD NUMBER     751
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF= 3, MT= 24 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 24
   SECTION  3/ 24 NOT IN DIRECTORY                RECORD NUMBER     762
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 28 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 28
   SECTION  3/ 28 NOT IN DIRECTORY                RECORD NUMBER     769
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 41 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 41
   SECTION  3/ 41 NOT IN DIRECTORY                RECORD NUMBER     778
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 51 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 51
   SECTION  3/ 51 NOT IN DIRECTORY                RECORD NUMBER     784
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 52 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 52
   SECTION  3/ 52 NOT IN DIRECTORY                RECORD NUMBER     802
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 53 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 53
   SECTION  3/ 53 NOT IN DIRECTORY                RECORD NUMBER     819
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 54 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 54
          SECTION  3/ 54 NOT IN DIRECTORY                  RECORD NUMBER     836
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 55 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 55
          SECTION  3/ 55 NOT IN DIRECTORY                  RECORD NUMBER     851
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 56
          SECTION  3/ 56 NOT IN DIRECTORY                  RECORD NUMBER     866
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 57
          SECTION  3/ 57 NOT IN DIRECTORY                  RECORD NUMBER     882
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 58
          SECTION  3/ 58 NOT IN DIRECTORY                  RECORD NUMBER     898
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 59 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 59
          SECTION  3/ 59 NOT IN DIRECTORY                  RECORD NUMBER     913
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 60
          SECTION  3/ 60 NOT IN DIRECTORY                  RECORD NUMBER     928
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 61
          SECTION  3/ 61 NOT IN DIRECTORY                  RECORD NUMBER     941
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 62 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 62
           SECTION  3/ 62 NOT IN DIRECTORY                    RECORD NUMBER     955
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 63 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 63
           SECTION  3/ 63 NOT IN DIRECTORY                    RECORD NUMBER     970
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 64 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 64
           SECTION  3/ 64 NOT IN DIRECTORY                    RECORD NUMBER     985
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 65 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 65
           SECTION  3/ 65 NOT IN DIRECTORY                    RECORD NUMBER    1000
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 66 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 66
           SECTION  3/ 66 NOT IN DIRECTORY                    RECORD NUMBER    1015
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 67 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 67
           SECTION  3/ 67 NOT IN DIRECTORY                    RECORD NUMBER    1027
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 68 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 68
           SECTION  3/ 68 NOT IN DIRECTORY                    RECORD NUMBER    1040
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 69 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 69
           SECTION  3/ 69 NOT IN DIRECTORY                    RECORD NUMBER    1054
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 70 (0): Directory (b)

4

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 70
          SECTION  3/ 70 NOT IN DIRECTORY                  RECORD NUMBER    1068
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 71 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 71
          SECTION  3/ 71 NOT IN DIRECTORY                  RECORD NUMBER    1082
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 72 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 72
          SECTION  3/ 72 NOT IN DIRECTORY                  RECORD NUMBER    1096
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 73 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 73
          SECTION  3/ 73 NOT IN DIRECTORY                  RECORD NUMBER    1110
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 74 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 74
          SECTION  3/ 74 NOT IN DIRECTORY                  RECORD NUMBER    1124
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 75 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 75
          SECTION  3/ 75 NOT IN DIRECTORY                  RECORD NUMBER    1138
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 76 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 76
          SECTION  3/ 76 NOT IN DIRECTORY                  RECORD NUMBER    1152
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 77 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 77
          SECTION  3/ 77 NOT IN DIRECTORY                  RECORD NUMBER    1166
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 78 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 78
          SECTION  3/ 78 NOT IN DIRECTORY                RECORD NUMBER    1180
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 79 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 79
          SECTION  3/ 79 NOT IN DIRECTORY                RECORD NUMBER    1194
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 80 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 80
          SECTION  3/ 80 NOT IN DIRECTORY                RECORD NUMBER    1208
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 81 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 81
          SECTION  3/ 81 NOT IN DIRECTORY                RECORD NUMBER    1222
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 82 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 82
          SECTION  3/ 82 NOT IN DIRECTORY                RECORD NUMBER    1236
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT= 91 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT= 91
          SECTION  3/ 91 NOT IN DIRECTORY                RECORD NUMBER    1250
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=102 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT=102
          SECTION  3/102 NOT IN DIRECTORY                RECORD NUMBER    1267
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=103 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6643, MF= 3, MT=103
          SECTION  3/103 NOT IN DIRECTORY                RECORD NUMBER    1287
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=107 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=107
         SECTION  3/107 NOT IN DIRECTORY                    RECORD NUMBER    1301
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=600 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=600
         SECTION  3/600 NOT IN DIRECTORY                    RECORD NUMBER    1318
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=601 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=601
         SECTION  3/601 NOT IN DIRECTORY                    RECORD NUMBER    1330
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=602 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=602
         SECTION  3/602 NOT IN DIRECTORY                    RECORD NUMBER    1342
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=603 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=603
         SECTION  3/603 NOT IN DIRECTORY                    RECORD NUMBER    1354
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=604 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=604
         SECTION  3/604 NOT IN DIRECTORY                    RECORD NUMBER    1366
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=605 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=605
         SECTION  3/605 NOT IN DIRECTORY                    RECORD NUMBER    1378
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=606 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=606
         SECTION  3/606 NOT IN DIRECTORY                    RECORD NUMBER    1390
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=649 (0): Directory (b)

7

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=649
         SECTION  3/649 NOT IN DIRECTORY                    RECORD NUMBER    1402
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=800 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=800
         SECTION  3/800 NOT IN DIRECTORY                    RECORD NUMBER    1414
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=801 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=801
         SECTION  3/801 NOT IN DIRECTORY                    RECORD NUMBER    1431
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=802 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=802
         SECTION  3/802 NOT IN DIRECTORY                    RECORD NUMBER    1448
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=803 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=803
         SECTION  3/803 NOT IN DIRECTORY                    RECORD NUMBER    1465
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=804 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=804
         SECTION  3/804 NOT IN DIRECTORY                    RECORD NUMBER    1482
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=805 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=805
         SECTION  3/805 NOT IN DIRECTORY                    RECORD NUMBER    1499
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=806 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 3, MT=806
         SECTION  3/806 NOT IN DIRECTORY                    RECORD NUMBER    1515
```

63. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=807 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT=807
    SECTION  3/807 NOT IN DIRECTORY              RECORD NUMBER    1531
```

64. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=808 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT=808
    SECTION  3/808 NOT IN DIRECTORY              RECORD NUMBER    1547
```

65. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=809 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT=809
    SECTION  3/809 NOT IN DIRECTORY              RECORD NUMBER    1563
```

66. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 3, MT=849 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 3, MT=849
    SECTION  3/849 NOT IN DIRECTORY              RECORD NUMBER    1579
```

67. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 4, MT=  2
    SECTION  4/  2 NOT IN DIRECTORY              RECORD NUMBER    1596
```

68. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 51 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 51
    SECTION  4/ 51 NOT IN DIRECTORY              RECORD NUMBER    1750
```

69. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 52 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 52
    SECTION  4/ 52 NOT IN DIRECTORY              RECORD NUMBER    1892
```

70. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 53 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 53
    SECTION  4/ 53 NOT IN DIRECTORY              RECORD NUMBER    2014
```

71. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 54 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 54
         SECTION  4/ 54 NOT IN DIRECTORY                RECORD NUMBER    2124
```

72. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 55
         SECTION  4/ 55 NOT IN DIRECTORY                RECORD NUMBER    2237
```

73. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 56
         SECTION  4/ 56 NOT IN DIRECTORY                RECORD NUMBER    2336
```

74. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 57
         SECTION  4/ 57 NOT IN DIRECTORY                RECORD NUMBER    2411
```

75. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 58 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 58
         SECTION  4/ 58 NOT IN DIRECTORY                RECORD NUMBER    2484
```

76. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 59 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 59
         SECTION  4/ 59 NOT IN DIRECTORY                RECORD NUMBER    2555
```

77. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 60 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 60
         SECTION  4/ 60 NOT IN DIRECTORY                RECORD NUMBER    2626
```

78. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 61 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 61
         SECTION  4/ 61 NOT IN DIRECTORY                RECORD NUMBER    2728
```

79. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 62
          SECTION  4/ 62 NOT IN DIRECTORY               RECORD NUMBER    2836
```

80. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 63
          SECTION  4/ 63 NOT IN DIRECTORY               RECORD NUMBER    2903
```

81. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 64
          SECTION  4/ 64 NOT IN DIRECTORY               RECORD NUMBER    2970
```

82. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 65
          SECTION  4/ 65 NOT IN DIRECTORY               RECORD NUMBER    3037
```

83. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 66
          SECTION  4/ 66 NOT IN DIRECTORY               RECORD NUMBER    3125
```

84. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 67
          SECTION  4/ 67 NOT IN DIRECTORY               RECORD NUMBER    3217
```

85. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 68 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 68
          SECTION  4/ 68 NOT IN DIRECTORY               RECORD NUMBER    3318
```

86. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 69 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 69
          SECTION  4/ 69 NOT IN DIRECTORY               RECORD NUMBER    3383
```

87. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 70 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 70
         SECTION  4/ 70 NOT IN DIRECTORY                    RECORD NUMBER    3482
```

88. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 71 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 71
         SECTION  4/ 71 NOT IN DIRECTORY                    RECORD NUMBER    3547
```

89. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 72 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 72
         SECTION  4/ 72 NOT IN DIRECTORY                    RECORD NUMBER    3612
```

90. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 73 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 73
         SECTION  4/ 73 NOT IN DIRECTORY                    RECORD NUMBER    3675
```

91. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 74 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 74
         SECTION  4/ 74 NOT IN DIRECTORY                    RECORD NUMBER    3738
```

92. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 75 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 75
         SECTION  4/ 75 NOT IN DIRECTORY                    RECORD NUMBER    3801
```

93. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 76 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 76
         SECTION  4/ 76 NOT IN DIRECTORY                    RECORD NUMBER    3864
```

94. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 77 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 77
         SECTION  4/ 77 NOT IN DIRECTORY                    RECORD NUMBER    3927
```

95. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 78 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 78
           SECTION  4/ 78 NOT IN DIRECTORY                 RECORD NUMBER    3990
```

96. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 79 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 79
           SECTION  4/ 79 NOT IN DIRECTORY                 RECORD NUMBER    4051
```

97. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 80 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 80
           SECTION  4/ 80 NOT IN DIRECTORY                 RECORD NUMBER    4112
```

98. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 81 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 81
           SECTION  4/ 81 NOT IN DIRECTORY                 RECORD NUMBER    4173
```

99. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT= 82 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT= 82
           SECTION  4/ 82 NOT IN DIRECTORY                 RECORD NUMBER    4234
```

100. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT=600 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=600
           SECTION  4/600 NOT IN DIRECTORY                 RECORD NUMBER    4295
```

101. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT=601 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=601
           SECTION  4/601 NOT IN DIRECTORY                 RECORD NUMBER    4344
```

102. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT=602 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=602
           SECTION  4/602 NOT IN DIRECTORY                 RECORD NUMBER    4393
```

103. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 4, MT=603 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT=603
         SECTION  4/603 NOT IN DIRECTORY                  RECORD NUMBER   4442
```

104. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF= 4, MT=604 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT=604
         SECTION  4/604 NOT IN DIRECTORY                  RECORD NUMBER   4491
```

105. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF= 4, MT=605 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT=605
         SECTION  4/605 NOT IN DIRECTORY                  RECORD NUMBER   4540
```

106. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF= 4, MT=606 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT=606
         SECTION  4/606 NOT IN DIRECTORY                  RECORD NUMBER   4589
```

107. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF= 4, MT=800 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT=800
         SECTION  4/800 NOT IN DIRECTORY                  RECORD NUMBER   4638
```

108. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF= 4, MT=801 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT=801
         SECTION  4/801 NOT IN DIRECTORY                  RECORD NUMBER   4719
```

109. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF= 4, MT=802 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT=802
         SECTION  4/802 NOT IN DIRECTORY                  RECORD NUMBER   4800
```

110. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF= 4, MT=803 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF= 4, MT=803
         SECTION  4/803 NOT IN DIRECTORY                  RECORD NUMBER   4881
```

111. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF= 4, MT=804 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=804
          SECTION  4/804 NOT IN DIRECTORY                RECORD NUMBER    4962
```

112. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF= 4, MT=805 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=805
          SECTION  4/805 NOT IN DIRECTORY                RECORD NUMBER    5043
```

113. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF= 4, MT=806 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=806
          SECTION  4/806 NOT IN DIRECTORY                RECORD NUMBER    5124
```

114. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF= 4, MT=807 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=807
          SECTION  4/807 NOT IN DIRECTORY                RECORD NUMBER    5205
```

115. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF= 4, MT=808 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=808
          SECTION  4/808 NOT IN DIRECTORY                RECORD NUMBER    5286
```

116. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF= 4, MT=809 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 4, MT=809
          SECTION  4/809 NOT IN DIRECTORY                RECORD NUMBER    5367
```

117. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF= 6, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT= 16
          SECTION  6/ 16 NOT IN DIRECTORY                RECORD NUMBER    5449
```

118. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF= 6, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT= 17
          SECTION  6/ 17 NOT IN DIRECTORY                RECORD NUMBER    6636
```

119. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF= 6, MT= 22 (0): Directory (b)

15

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT= 22
           SECTION  6/ 22 NOT IN DIRECTORY                    RECORD NUMBER    6841
```

120. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 6, MT= 24 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT= 24
           SECTION  6/ 24 NOT IN DIRECTORY                    RECORD NUMBER    9060
```

121. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 6, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT= 28
           SECTION  6/ 28 NOT IN DIRECTORY                    RECORD NUMBER    9388
```

122. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 6, MT= 41 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT= 41
           SECTION  6/ 41 NOT IN DIRECTORY                    RECORD NUMBER   10436
```

123. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 6, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT= 91
           SECTION  6/ 91 NOT IN DIRECTORY                    RECORD NUMBER   10571
```

124. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 6, MT=102 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT=102
           SECTION  6/102 NOT IN DIRECTORY                    RECORD NUMBER   15902
```

125. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 6, MT=649 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT=649
           SECTION  6/649 NOT IN DIRECTORY                    RECORD NUMBER   17617
```

126. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF= 6, MT=849 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF= 6, MT=849
           SECTION  6/849 NOT IN DIRECTORY                    RECORD NUMBER   18940
```

127. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=12, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 51
           SECTION 12/ 51 NOT IN DIRECTORY                RECORD NUMBER   20481
```

128. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF=12, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 52
           SECTION 12/ 52 NOT IN DIRECTORY                RECORD NUMBER   20485
```

129. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF=12, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 53
           SECTION 12/ 53 NOT IN DIRECTORY                RECORD NUMBER   20489
```

130. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF=12, MT= 54 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 54
           SECTION 12/ 54 NOT IN DIRECTORY                RECORD NUMBER   20493
```

131. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF=12, MT= 55 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 55
           SECTION 12/ 55 NOT IN DIRECTORY                RECORD NUMBER   20497
```

132. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF=12, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 56
           SECTION 12/ 56 NOT IN DIRECTORY                RECORD NUMBER   20501
```

133. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF=12, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 57
           SECTION 12/ 57 NOT IN DIRECTORY                RECORD NUMBER   20505
```

134. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF=12, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 58
           SECTION 12/ 58 NOT IN DIRECTORY                RECORD NUMBER   20510
```

135. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6643, MF=12, MT= 59 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 59
            SECTION 12/ 59 NOT IN DIRECTORY                 RECORD NUMBER    20514
```

136. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 60
            SECTION 12/ 60 NOT IN DIRECTORY                 RECORD NUMBER    20519
```

137. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 61
            SECTION 12/ 61 NOT IN DIRECTORY                 RECORD NUMBER    20524
```

138. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 62
            SECTION 12/ 62 NOT IN DIRECTORY                 RECORD NUMBER    20528
```

139. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 63
            SECTION 12/ 63 NOT IN DIRECTORY                 RECORD NUMBER    20533
```

140. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 64
            SECTION 12/ 64 NOT IN DIRECTORY                 RECORD NUMBER    20538
```

141. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 65
            SECTION 12/ 65 NOT IN DIRECTORY                 RECORD NUMBER    20542
```

142. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 66
            SECTION 12/ 66 NOT IN DIRECTORY                 RECORD NUMBER    20546
```

143. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT= 67 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT= 67
   SECTION 12/ 67 NOT IN DIRECTORY                RECORD NUMBER   20550
```

144. Missing a section in directory so your directory is messed up. This error will break everything else
  MAT=6643, MF=12, MT= 68 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT= 68
   SECTION 12/ 68 NOT IN DIRECTORY                RECORD NUMBER   20554
```

145. Missing a section in directory so your directory is messed up. This error will break everything else
  MAT=6643, MF=12, MT= 69 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT= 69
   SECTION 12/ 69 NOT IN DIRECTORY                RECORD NUMBER   20558
```

146. Missing a section in directory so your directory is messed up. This error will break everything else
  MAT=6643, MF=12, MT= 70 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT= 70
   SECTION 12/ 70 NOT IN DIRECTORY                RECORD NUMBER   20563
```

147. Missing a section in directory so your directory is messed up. This error will break everything else
  MAT=6643, MF=12, MT= 71 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT= 71
   SECTION 12/ 71 NOT IN DIRECTORY                RECORD NUMBER   20568
```

148. Missing a section in directory so your directory is messed up. This error will break everything else
  MAT=6643, MF=12, MT= 72 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT= 72
   SECTION 12/ 72 NOT IN DIRECTORY                RECORD NUMBER   20572
```

149. Missing a section in directory so your directory is messed up. This error will break everything else
  MAT=6643, MF=12, MT= 73 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT= 73
   SECTION 12/ 73 NOT IN DIRECTORY                RECORD NUMBER   20577
```

150. Missing a section in directory so your directory is messed up. This error will break everything else
  MAT=6643, MF=12, MT= 74 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT= 74
   SECTION 12/ 74 NOT IN DIRECTORY                RECORD NUMBER   20581
```

151. Missing a section in directory so your directory is messed up. This error will break everything else
  MAT=6643, MF=12, MT= 75 (0): Directory (b)

19

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 75
           SECTION 12/ 75 NOT IN DIRECTORY                    RECORD NUMBER   20586
```

152. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643$, $MF=12$, $MT=76$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 76
           SECTION 12/ 76 NOT IN DIRECTORY                    RECORD NUMBER   20590
```

153. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643$, $MF=12$, $MT=77$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 77
           SECTION 12/ 77 NOT IN DIRECTORY                    RECORD NUMBER   20594
```

154. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643$, $MF=12$, $MT=78$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 78
           SECTION 12/ 78 NOT IN DIRECTORY                    RECORD NUMBER   20598
```

155. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643$, $MF=12$, $MT=79$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 79
           SECTION 12/ 79 NOT IN DIRECTORY                    RECORD NUMBER   20603
```

156. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643$, $MF=12$, $MT=80$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 80
           SECTION 12/ 80 NOT IN DIRECTORY                    RECORD NUMBER   20607
```

157. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643$, $MF=12$, $MT=81$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 81
           SECTION 12/ 81 NOT IN DIRECTORY                    RECORD NUMBER   20611
```

158. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643$, $MF=12$, $MT=82$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT= 82
           SECTION 12/ 82 NOT IN DIRECTORY                    RECORD NUMBER   20615
```

159. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643$, $MF=12$, $MT=601$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT=601
    SECTION 12/601 NOT IN DIRECTORY                  RECORD NUMBER    20619
```

160. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=12, MT=602 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT=602
    SECTION 12/602 NOT IN DIRECTORY                  RECORD NUMBER    20623
```

161. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=12, MT=603 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT=603
    SECTION 12/603 NOT IN DIRECTORY                  RECORD NUMBER    20627
```

162. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=12, MT=604 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT=604
    SECTION 12/604 NOT IN DIRECTORY                  RECORD NUMBER    20631
```

163. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=12, MT=605 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT=605
    SECTION 12/605 NOT IN DIRECTORY                  RECORD NUMBER    20635
```

164. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=12, MT=606 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT=606
    SECTION 12/606 NOT IN DIRECTORY                  RECORD NUMBER    20639
```

165. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=12, MT=801 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT=801
    SECTION 12/801 NOT IN DIRECTORY                  RECORD NUMBER    20643
```

166. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=12, MT=802 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6643, MF=12, MT=802
    SECTION 12/802 NOT IN DIRECTORY                  RECORD NUMBER    20647
```

167. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=12, MT=803 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT=803
           SECTION 12/803 NOT IN DIRECTORY                  RECORD NUMBER   20651
```

168. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT=804 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT=804
           SECTION 12/804 NOT IN DIRECTORY                  RECORD NUMBER   20655
```

169. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT=805 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT=805
           SECTION 12/805 NOT IN DIRECTORY                  RECORD NUMBER   20659
```

170. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT=806 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT=806
           SECTION 12/806 NOT IN DIRECTORY                  RECORD NUMBER   20663
```

171. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT=807 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT=807
           SECTION 12/807 NOT IN DIRECTORY                  RECORD NUMBER   20667
```

172. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT=808 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT=808
           SECTION 12/808 NOT IN DIRECTORY                  RECORD NUMBER   20671
```

173. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=12, MT=809 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=12, MT=809
           SECTION 12/809 NOT IN DIRECTORY                  RECORD NUMBER   20676
```

174. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT= 51
           SECTION 14/ 51 NOT IN DIRECTORY                  RECORD NUMBER   20681
```

175. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 52 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT= 52
        SECTION 14/ 52 NOT IN DIRECTORY                    RECORD NUMBER   20683
```

176. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 53 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT= 53
        SECTION 14/ 53 NOT IN DIRECTORY                    RECORD NUMBER   20685
```

177. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 54 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT= 54
        SECTION 14/ 54 NOT IN DIRECTORY                    RECORD NUMBER   20687
```

178. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT= 55
        SECTION 14/ 55 NOT IN DIRECTORY                    RECORD NUMBER   20689
```

179. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT= 56
        SECTION 14/ 56 NOT IN DIRECTORY                    RECORD NUMBER   20691
```

180. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT= 57
        SECTION 14/ 57 NOT IN DIRECTORY                    RECORD NUMBER   20693
```

181. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 58 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT= 58
        SECTION 14/ 58 NOT IN DIRECTORY                    RECORD NUMBER   20695
```

182. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 59 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT= 59
        SECTION 14/ 59 NOT IN DIRECTORY                    RECORD NUMBER   20697
```

183. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 60 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 60
       SECTION 14/ 60 NOT IN DIRECTORY                RECORD NUMBER   20699
```

184. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 61 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 61
       SECTION 14/ 61 NOT IN DIRECTORY                RECORD NUMBER   20701
```

185. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 62 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 62
       SECTION 14/ 62 NOT IN DIRECTORY                RECORD NUMBER   20703
```

186. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 63 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 63
       SECTION 14/ 63 NOT IN DIRECTORY                RECORD NUMBER   20705
```

187. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 64 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 64
       SECTION 14/ 64 NOT IN DIRECTORY                RECORD NUMBER   20707
```

188. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 65 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 65
       SECTION 14/ 65 NOT IN DIRECTORY                RECORD NUMBER   20709
```

189. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 66 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 66
       SECTION 14/ 66 NOT IN DIRECTORY                RECORD NUMBER   20711
```

190. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 67 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 67
       SECTION 14/ 67 NOT IN DIRECTORY                RECORD NUMBER   20713
```

191. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 68 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 68
        SECTION 14/ 68 NOT IN DIRECTORY                RECORD NUMBER   20715
```

192. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 69 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 69
        SECTION 14/ 69 NOT IN DIRECTORY                RECORD NUMBER   20717
```

193. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 70 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 70
        SECTION 14/ 70 NOT IN DIRECTORY                RECORD NUMBER   20719
```

194. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 71 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 71
        SECTION 14/ 71 NOT IN DIRECTORY                RECORD NUMBER   20721
```

195. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 72 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 72
        SECTION 14/ 72 NOT IN DIRECTORY                RECORD NUMBER   20723
```

196. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 73 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 73
        SECTION 14/ 73 NOT IN DIRECTORY                RECORD NUMBER   20725
```

197. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 74 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 74
        SECTION 14/ 74 NOT IN DIRECTORY                RECORD NUMBER   20727
```

198. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 75 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT= 75
        SECTION 14/ 75 NOT IN DIRECTORY                RECORD NUMBER   20729
```

199. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6643, MF=14, MT= 76 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT= 76
          SECTION 14/ 76 NOT IN DIRECTORY                RECORD NUMBER    20731
```

200. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643, MF=14, MT= 77$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT= 77
          SECTION 14/ 77 NOT IN DIRECTORY                RECORD NUMBER    20733
```

201. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643, MF=14, MT= 78$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT= 78
          SECTION 14/ 78 NOT IN DIRECTORY                RECORD NUMBER    20735
```

202. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643, MF=14, MT= 79$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT= 79
          SECTION 14/ 79 NOT IN DIRECTORY                RECORD NUMBER    20737
```

203. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643, MF=14, MT= 80$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT= 80
          SECTION 14/ 80 NOT IN DIRECTORY                RECORD NUMBER    20739
```

204. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643, MF=14, MT= 81$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT= 81
          SECTION 14/ 81 NOT IN DIRECTORY                RECORD NUMBER    20741
```

205. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643, MF=14, MT= 82$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT= 82
          SECTION 14/ 82 NOT IN DIRECTORY                RECORD NUMBER    20743
```

206. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643, MF=14, MT=601$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6643, MF=14, MT=601
          SECTION 14/601 NOT IN DIRECTORY                RECORD NUMBER    20745
```

207. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6643, MF=14, MT=602$ (0): Directory (b)

26

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT=602
       SECTION 14/602 NOT IN DIRECTORY                 RECORD NUMBER   20747
```

208. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=14, MT=603 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT=603
       SECTION 14/603 NOT IN DIRECTORY                 RECORD NUMBER   20749
```

209. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=14, MT=604 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT=604
       SECTION 14/604 NOT IN DIRECTORY                 RECORD NUMBER   20751
```

210. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=14, MT=605 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT=605
       SECTION 14/605 NOT IN DIRECTORY                 RECORD NUMBER   20753
```

211. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=14, MT=606 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT=606
       SECTION 14/606 NOT IN DIRECTORY                 RECORD NUMBER   20755
```

212. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=14, MT=801 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT=801
       SECTION 14/801 NOT IN DIRECTORY                 RECORD NUMBER   20757
```

213. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=14, MT=802 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT=802
       SECTION 14/802 NOT IN DIRECTORY                 RECORD NUMBER   20759
```

214. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=14, MT=803 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6643, MF=14, MT=803
       SECTION 14/803 NOT IN DIRECTORY                 RECORD NUMBER   20761
```

215. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6643, MF=14, MT=804 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT=804
          SECTION 14/804 NOT IN DIRECTORY                    RECORD NUMBER    20763
```

216. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=14, MT=805 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT=805
          SECTION 14/805 NOT IN DIRECTORY                    RECORD NUMBER    20765
```

217. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=14, MT=806 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT=806
          SECTION 14/806 NOT IN DIRECTORY                    RECORD NUMBER    20767
```

218. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=14, MT=807 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT=807
          SECTION 14/807 NOT IN DIRECTORY                    RECORD NUMBER    20769
```

219. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=14, MT=808 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT=808
          SECTION 14/808 NOT IN DIRECTORY                    RECORD NUMBER    20771
```

220. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6643, MF=14, MT=809 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6643, MF=14, MT=809
          SECTION 14/809 NOT IN DIRECTORY                    RECORD NUMBER    20773
```

- psyche   Warnings:

  1. Level density in URR not in agreement with PSYCHE's expectations
  FILE 2 / SECTION 151 / ENERGY = 4.84500E+03. STRENGTH FUNCTION IS 1.30000E-04 / ENERGY = 4.84500E+03. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.45317E+01 SHOULD BE 3.11247E+01 (0): URR dens. (a)

```
      FILE  2
         SECTION 151
              ENERGY =  4.84500E+03. STRENGTH FUNCTION IS  1.30000E-04
                        ENERGY =  4.84500E+03. STRENGTH FUNCTION IS  1.30000E-04
                                  DENSITY  3.45317E+01 SHOULD BE  3.11247E+01
```

  2. Level density in URR not in agreement with PSYCHE's expectations
  FILE 2 / SECTION 151 / ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.44951E+01 SHOULD BE 3.10917E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  5.50000E+03. STRENGTH FUNCTION IS  1.30000E-04
                           DENSITY  3.44951E+01 SHOULD BE  3.10917E+01
```

3. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.44533E+01 SHOULD BE 3.10539E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  1.30000E-04
                           DENSITY  3.44533E+01 SHOULD BE  3.10539E+01
```

4. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.43835E+01 SHOULD BE 3.09911E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  1.30000E-04
                           DENSITY  3.43835E+01 SHOULD BE  3.09911E+01
```

5. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.43140E+01 SHOULD BE 3.09284E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  1.30000E-04
                           DENSITY  3.43140E+01 SHOULD BE  3.09284E+01
```

6. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.42446E+01 SHOULD BE 3.08659E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  1.30000E-04
                           DENSITY  3.42446E+01 SHOULD BE  3.08659E+01
```

7. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.41754E+01 SHOULD BE 3.08035E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  1.30000E-04
                           DENSITY  3.41754E+01 SHOULD BE  3.08035E+01
```

8. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.41062E+01 SHOULD BE 3.07412E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  1.30000E-04
                       DENSITY  3.41062E+01 SHOULD BE  3.07412E+01
```

9. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.40373E+01 SHOULD BE 3.06790E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  1.30000E-04
                       DENSITY  3.40373E+01 SHOULD BE  3.06790E+01
```

10. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.56250E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.39342E+01 SHOULD BE 3.05860E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.56250E+04. STRENGTH FUNCTION IS  1.30000E-04
                       DENSITY  3.39342E+01 SHOULD BE  3.05860E+01
```

11. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.38313E+01 SHOULD BE 3.04934E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  1.30000E-04
                       DENSITY  3.38313E+01 SHOULD BE  3.04934E+01
```

12. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.95000E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.37220E+01 SHOULD BE 3.03948E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.95000E+04. STRENGTH FUNCTION IS  1.30000E-04
                       DENSITY  3.37220E+01 SHOULD BE  3.03948E+01
```

13. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.35587E+01 SHOULD BE 3.02476E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  1.30000E-04
                       DENSITY  3.35587E+01 SHOULD BE  3.02476E+01
```

14. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.75000E+04. STRENGTH FUNCTION IS 1.30000E-04 / DENSITY 3.32884E+01 SHOULD BE 3.00040E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  2.75000E+04. STRENGTH FUNCTION IS  1.30000E-04
                         DENSITY  3.32884E+01 SHOULD BE  3.00040E+01
```

15. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS
    1.30000E-04 / DENSITY 3.28872E+01 SHOULD BE 2.96424E+01 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  3.50000E+04. STRENGTH FUNCTION IS  1.30000E-04
                         DENSITY  3.28872E+01 SHOULD BE  2.96424E+01
```

16. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 4.50000E+04. STRENGTH FUNCTION IS
    1.30000E-04 / DENSITY 3.23601E+01 SHOULD BE 2.91673E+01 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  4.50000E+04. STRENGTH FUNCTION IS  1.30000E-04
                         DENSITY  3.23601E+01 SHOULD BE  2.91673E+01
```

17. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 5.50000E+04. STRENGTH FUNCTION IS
    1.30000E-04 / DENSITY 3.18419E+01 SHOULD BE 2.87003E+01 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  5.50000E+04. STRENGTH FUNCTION IS  1.30000E-04
                         DENSITY  3.18419E+01 SHOULD BE  2.87003E+01
```

18. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS
    1.30000E-04 / DENSITY 3.10809E+01 SHOULD BE 2.80143E+01 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  7.00000E+04. STRENGTH FUNCTION IS  1.30000E-04
                         DENSITY  3.10809E+01 SHOULD BE  2.80143E+01
```

19. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 8.11620E+04. STRENGTH FUNCTION IS
    1.30000E-04 / DENSITY 3.05270E+01 SHOULD BE 2.75151E+01 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
         ENERGY =  8.11620E+04. STRENGTH FUNCTION IS  1.30000E-04
                         DENSITY  3.05270E+01 SHOULD BE  2.75151E+01
```

20. Level density in URR not in agreement with PSYCHE's expectations
    *FILE 2 / SECTION 151 / ENERGY = 4.84500E+03. STRENGTH FUNCTION IS
    2.00000E-04 / ENERGY = 4.84500E+03. STRENGTH FUNCTION IS 2.00000E-04 /
    DENSITY 2.73726E+01 SHOULD BE 2.30212E+01 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
       ENERGY =  4.84500E+03. STRENGTH FUNCTION IS  2.00000E-04
                 ENERGY =  4.84500E+03. STRENGTH FUNCTION IS  2.00000E-04
                           DENSITY  2.73726E+01 SHOULD BE  2.30212E+01
```

21. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.73436E+01 SHOULD BE 2.29968E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
       ENERGY =  5.50000E+03. STRENGTH FUNCTION IS  2.00000E-04
                 DENSITY  2.73436E+01 SHOULD BE  2.29968E+01
```

22. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 6.25000E+03. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.73104E+01 SHOULD BE 2.29688E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
       ENERGY =  6.25000E+03. STRENGTH FUNCTION IS  2.00000E-04
                 DENSITY  2.73104E+01 SHOULD BE  2.29688E+01
```

23. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.72552E+01 SHOULD BE 2.29224E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
       ENERGY =  7.50000E+03. STRENGTH FUNCTION IS  2.00000E-04
                 DENSITY  2.72552E+01 SHOULD BE  2.29224E+01
```

24. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 8.75000E+03. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.72000E+01 SHOULD BE 2.28760E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
       ENERGY =  8.75000E+03. STRENGTH FUNCTION IS  2.00000E-04
                 DENSITY  2.72000E+01 SHOULD BE  2.28760E+01
```

25. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.71450E+01 SHOULD BE 2.28297E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
       ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  2.00000E-04
                 DENSITY  2.71450E+01 SHOULD BE  2.28297E+01
```

26. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.12500E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.70901E+01 SHOULD BE 2.27836E+01 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  1.12500E+04. STRENGTH FUNCTION IS  2.00000E-04
                            DENSITY  2.70901E+01 SHOULD BE  2.27836E+01
```

27. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.25000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.70354E+01 SHOULD BE 2.27375E+01 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  1.25000E+04. STRENGTH FUNCTION IS  2.00000E-04
                            DENSITY  2.70354E+01 SHOULD BE  2.27375E+01
```

28. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.37500E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.69807E+01 SHOULD BE 2.26915E+01 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  1.37500E+04. STRENGTH FUNCTION IS  2.00000E-04
                            DENSITY  2.69807E+01 SHOULD BE  2.26915E+01
```

29. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.56250E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.68989E+01 SHOULD BE 2.26228E+01 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  1.56250E+04. STRENGTH FUNCTION IS  2.00000E-04
                            DENSITY  2.68989E+01 SHOULD BE  2.26228E+01
```

30. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.75000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.68174E+01 SHOULD BE 2.25542E+01 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  1.75000E+04. STRENGTH FUNCTION IS  2.00000E-04
                            DENSITY  2.68174E+01 SHOULD BE  2.25542E+01
```

31. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.95000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.67307E+01 SHOULD BE 2.24813E+01 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  1.95000E+04. STRENGTH FUNCTION IS  2.00000E-04
                            DENSITY  2.67307E+01 SHOULD BE  2.24813E+01
```

32. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 2.25000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.66013E+01 SHOULD BE 2.23725E+01 (0): URR dens. (a)

33

```
FILE  2
   SECTION 151
            ENERGY =  2.25000E+04. STRENGTH FUNCTION IS  2.00000E-04
                           DENSITY  2.66013E+01 SHOULD BE  2.23725E+01
```

33. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.75000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.63871E+01 SHOULD BE 2.21922E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  2.75000E+04. STRENGTH FUNCTION IS  2.00000E-04
                           DENSITY  2.63871E+01 SHOULD BE  2.21922E+01
```

34. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.60690E+01 SHOULD BE 2.19248E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  3.50000E+04. STRENGTH FUNCTION IS  2.00000E-04
                           DENSITY  2.60690E+01 SHOULD BE  2.19248E+01
```

35. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 4.50000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.56513E+01 SHOULD BE 2.15734E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  4.50000E+04. STRENGTH FUNCTION IS  2.00000E-04
                           DENSITY  2.56513E+01 SHOULD BE  2.15734E+01
```

36. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.52405E+01 SHOULD BE 2.12280E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  5.50000E+04. STRENGTH FUNCTION IS  2.00000E-04
                           DENSITY  2.52405E+01 SHOULD BE  2.12280E+01
```

37. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.46372E+01 SHOULD BE 2.07206E+01 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  7.00000E+04. STRENGTH FUNCTION IS  2.00000E-04
                           DENSITY  2.46372E+01 SHOULD BE  2.07206E+01
```

38. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.11620E+04. STRENGTH FUNCTION IS 2.00000E-04 / DENSITY 2.41982E+01 SHOULD BE 2.03513E+01 (0): URR dens. (a)

```
           FILE   2
              SECTION 151
                     ENERGY =  8.11620E+04. STRENGTH FUNCTION IS  2.00000E-04
                                    DENSITY  2.41982E+01 SHOULD BE  2.03513E+01
```

39. Non-threshold reaction with Q value differing from PSYCHE's expectations
    FILE 3 / SECTION 107 / THE CALCULATED Q 5.98372E+06 DISSAGREES WITH THE GIVEN Q 0.00000E+00 (0): Iffy Q

```
           FILE   3
              SECTION 107
                     THE CALCULATED Q  5.98372E+06 DISSAGREES WITH THE GIVEN Q  0.00000E+00
```

- `groupie` Errors:

  1. Very small elastic cross section found
     0: Small elastic

     ```
     Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
     ----------------------------------------------------------------------------
     ENDF/B Input and Output Data Filenames
     ENDFB.IN
     ENDFB.OUT
     ... [97 more lines]
     ```

- `fudge-4.0` Warnings:

  1. Missing a channel with a particular angular momenta combination
     resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

     ```
     WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
     WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
     WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
     WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
     ```

- `fudge-4.0` Errors:

  1. Calculated and tabulated Q values disagree.
     reaction label 34: n[multiplicity:'2'] + Dy161 + gamma (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -7516522.915374756 eV vs -8.196e6 eV!
     ```

  2. Calculated and tabulated Q values disagree.
     reaction label 35: n[multiplicity:'3'] + Dy160 + gamma (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -14093480.46624756 eV vs -1.465e7 eV!
     ```

  3. Calculated and tabulated Q values disagree.
     reaction label 36: n + H1 + Tb161 + gamma (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -7673291.981811523 eV vs -8.007e6 eV!
     ```

  4. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
     reaction label 36: n + H1 + Tb161 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

```
WARNING: Extra zero-probability outgoing energies found at incident energy 1.1e7 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 1.2e7 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 1.3e7 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 1.4e7 eV
        ... plus 7 more instances of this message
```

5. Calculated and tabulated Q values disagree.
   reaction label 37: H1 + Tb162 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1096334.430908203 eV vs -1.724e6 eV!
```

6. Calculated and tabulated Q values disagree.
   reaction label 38: H1 + Tb162_e1 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1135434.430908203 eV vs -1.7631e6 eV!
```

7. Calculated and tabulated Q values disagree.
   reaction label 39: H1 + Tb162_e2 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1193334.430908203 eV vs -1.821e6 eV!
```

8. Calculated and tabulated Q values disagree.
   reaction label 40: H1 + Tb162_e3 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1272334.430908203 eV vs -1.9e6 eV!
```

9. Calculated and tabulated Q values disagree.
   reaction label 41: H1 + Tb162_e4 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1312334.430908203 eV vs -1.94e6 eV!
```

10. Calculated and tabulated Q values disagree.
    reaction label 42: H1 + Tb162_e5 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1363334.430908203 eV vs -1.991e6 eV!
```

11. Calculated and tabulated Q values disagree.
    reaction label 43: H1 + Tb162_e6 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1406334.430908203 eV vs -2.034e6 eV!
```

12. Calculated and tabulated Q values disagree.
    reaction label 44: H1 + (Tb162_c ->Tb162 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1406334.430908203 eV vs -2.034e6 eV!
```

13. Calculated and tabulated Q values disagree.
    reaction label 45: He4 + Gd159 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 6372456.441223145 eV vs 6.028e6 eV!
```

14. Calculated and tabulated Q values disagree.
    reaction label 46: He4 + Gd159_e1 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 6321796.441223145 eV vs 5977340. eV!
```

15. Calculated and tabulated Q values disagree.
    reaction label 47: He4 + Gd159_e2 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6304666.441223145 eV vs 5960210. eV!`

16. Calculated and tabulated Q values disagree.
    reaction label 48: He4 + Gd159_e3 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6253536.441223145 eV vs 5909080. eV!`

17. Calculated and tabulated Q values disagree.
    reaction label 49: He4 + Gd159_e4 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6250526.441223145 eV vs 5906070. eV!`

18. Calculated and tabulated Q values disagree.
    reaction label 50: He4 + Gd159_e5 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6226066.441223145 eV vs 5881610. eV!`

19. Calculated and tabulated Q values disagree.
    reaction label 51: He4 + Gd159_e6 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6187056.441223145 eV vs 5.8426e6 eV!`

20. Calculated and tabulated Q values disagree.
    reaction label 52: He4 + Gd159_e7 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6160156.441223145 eV vs 5.8157e6 eV!`

21. Calculated and tabulated Q values disagree.
    reaction label 53: He4 + Gd159_e8 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6144966.441223145 eV vs 5800510. eV!`

22. Calculated and tabulated Q values disagree.
    reaction label 54: He4 + Gd159_e9 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6099456.441223145 eV vs 5.755e6 eV!`

23. Calculated and tabulated Q values disagree.
    reaction label 55: He4 + (Gd159_c ->Gd159 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6099456.441223145 eV vs 5.755e6 eV!`

24. Calculated and tabulated Q values disagree.
    reaction label 56: Dy163 + gamma (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 6487548.622467041 eV vs 6.271e6 eV!`

25. Calculated and tabulated Q values disagree.
    reaction label 57: n + He4 + Gd158 + gamma (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: 735064.254699707 eV vs 8.5e4 eV!`

26. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
reaction label 57: n + He4 + Gd158 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

```
WARNING: Extra zero-probability outgoing energies found at incident energy 7.e6 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 8.e6 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 8.2e6 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 8.3e6 eV
        ... plus 13 more instances of this message
```

27. Calculated and tabulated Q values disagree.
reaction label 58: n[multiplicity:'2'] + He4 + Gd157 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -7721024.025024414 eV vs -7.852e6 eV!
```

28. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
reaction label 58: n[multiplicity:'2'] + He4 + Gd157 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

```
WARNING: Extra zero-probability outgoing energies found at incident energy 1.6e7 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 1.7e7 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 1.8e7 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 1.9e7 eV
        ... plus 1 more instances of this message
```

29. Calculated and tabulated Q values disagree.
reaction label 59: n[multiplicity:'2'] + H1 + Tb160 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -15189814.89715576 eV vs -1.5704e7 eV!
```

30. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
reaction label 59: n[multiplicity:'2'] + H1 + Tb160 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

```
WARNING: Extra zero-probability outgoing energies found at incident energy 1.8e7 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 1.9e7 eV
WARNING: Extra zero-probability outgoing energies found at incident energy 2.e7 eV
```

31. Cross section domain does not match domain of linked reaction cross section sum
crossSectionSum label 1: (z,n) (Error # 0): summedCrossSectionDomainMismatch

```
WARNING: Cross section domain does not match domain of linked reaction cross section sum
```

32. Cross section domain does not match domain of linked reaction cross section sum
crossSectionSum label 2: (z,p) (Error # 0): summedCrossSectionDomainMismatch

```
WARNING: Cross section domain does not match domain of linked reaction cross section sum
```

- `njoy2012` Warnings:

1. Recoil is not given, so one-particle recoil approximation used.
   heatr...prompt kerma (0): HEATR/hinit (4)

```
---message from hinit---mf6, mt102 does not give recoil za= 66163
                      photon momentum recoil used.
```